

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) An address information setting method comprising:

a step of detecting ~~a trigger~~user input from a user;

a step of selecting a home agent to manage a mobile terminal from among routers to which the mobile terminal is connected, the selected home agent being chosen from a list of the routers responsive to the detected user input~~when the trigger is detected~~;

a step of generating a home address from the prefix distributed by the selected home agent~~selected~~; and

a step of carrying out a mobile IP procedure using the selected home agent and the generated home address.

2. (Currently Amended) An address information setting method according to claim 1, further comprising a step of acquiring router information from a network to which the mobile terminal is connected, when the ~~trigger~~user input is detected.

3. (Currently Amended) An address information setting method according to claim 1,

wherein in the selection of ~~a~~the home agent, ~~a~~the home agent is selected from among the routers whose flag<sub>x</sub> indicating that it is a home agent<sub>x</sub> is on, this flag included in acquired information regarding the routers.

4. (Currently Amended) An address information setting method according to claim 3,

wherein in the selection of ~~a~~the home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the one with a~~highest priority.

5. (Currently Amended) An address information setting method according to claim 3,

wherein in the selection step of ~~a~~the home agent, ~~a~~the home agent is selected arbitrarily from among the routers whose flag is on.

6. (Currently Amended) An address information setting method according to claim 3, further comprising a step of acquiring, from ~~the~~a user, criteria for selecting ~~a~~the home agent from among the routers whose flag is on,

wherein in the step of selecting ~~a~~the home agent, ~~a~~the home agent is selected according to the criteria.

7. (Currently Amended) An address information setting method according to claim 1, further comprising a step of notifying ~~the~~a user when the selection of ~~a~~the home agent is completed.

8. (Currently Amended) An address information setting method according to claim 2,

wherein the selection of ~~a~~the home agent is performed using router information acquired during a time period designated by ~~the~~a user.

9. (Currently Amended) A mobile terminal comprising:

an input unit through which a user inputs a trigger for setting information regarding a home agent;

an information setting unit that selects a home agent to manage the mobile terminal from among ~~the~~ routers to which the mobile terminal is connected when the mobile terminal receives the trigger, and sets the address of the home agent and a home address which is generated from ~~the~~a prefix distributed by the home agent as information regarding the home agent, the selected home agent being chosen from a list of the routers responsive to the user inputting the trigger; and

mobile IP processing means that carries out a mobile IP procedure using the information regarding the home agent.

10. (Currently Amended) A mobile terminal according to claim 9, further comprising:

a transmitting unit that transmits a router information request message for requesting router information from a network to which the mobile terminal is connected, when a~~the~~ trigger from the input unit is received; and

a receiving unit that receives router information response messages that are responses to the router information request message,

wherein the information setting unit selects a~~the~~ home agent to manage the mobile terminal from among the routers that have transmitted the router information response messages.

11. (Currently Amended) A mobile terminal according to claim 9,

wherein the information setting unit selects a~~the~~ home agent from among routers whose flag indicating that the home agent is included in the router information of the router information response messages is on.

12. (Currently Amended) A mobile terminal according to claim 11,

wherein in the selection of a~~the~~ home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the one~~ with a highest priority.

13. (Currently Amended) A mobile terminal according to claim 11,

wherein the information setting unit selects a~~the~~ home agent arbitrarily from among the routers whose flag is on.

14. (Currently Amended) A mobile terminal according to claim 11,

wherein through a~~an~~~~the~~ input unit the user enters selection criteria for the selection of a~~the~~ home agent to be performed by the information setting unit, and

the information setting unit performs the selection of a~~the~~ home agent based on ~~the basis of the selection~~ these criteria.

15. (Currently Amended) A mobile terminal according to claim 9,

wherein the input unit ~~may be~~is a soft key on a screen, a button set in a main body, or a switch set in the main body.

16. (Currently Amended) A mobile terminal according to claim 9, further comprising a display unit that notifies the user that ~~the~~-setting of information regarding ~~a~~-the home agent is completed.

17. (Currently Amended) A mobile terminal according to claim 9,  
wherein the input unit designates ~~the~~a time period in which ~~the~~-information regarding a~~the~~ home agent is set, and

the information setting unit sets the information only in ~~this~~the designated time period.

18. (Currently Amended) A mobile terminal according to claim ~~15~~17,  
wherein the time period is a period in which ~~the~~a soft key, ~~the~~a button, or ~~the~~a switch used as the input unit is in ~~the~~an state 'ON' state.

19. (Currently Amended) An address information setting method according to claim 2,

wherein in the selection of ~~a~~selecting the home agent, ~~a~~-the home agent is selected from among the routers whose flag, indicating that it is a~~the~~ home agent, is on, ~~this~~the flag being included in acquired information regarding the routers.

20. (Currently Amended) An address information setting method according to claim 19,

wherein in the selection of a~~the~~ home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the~~-one with a highest priority.

21. (Currently Amended) An address information setting method according to claim 19,

wherein in the selection step of selecting a~~the~~ home agent, a~~the~~ home agent is selected arbitrarily from among the routers whose flag is on.

22. (Currently Amended) An address information setting method according to claim 19, further comprising a step of acquiring, from ~~the~~ a user, criteria for selecting ~~a~~ the home agent from among the routers whose flag is on,

wherein in the step of selecting a ~~the~~ home agent, a ~~the~~ home agent is selected according to the criteria.

23. (Currently Amended) An address information setting method according to claim 2, further comprising a step of notifying ~~the~~ a user when the selection of a ~~the~~ home agent is completed.

24. (Currently Amended) A mobile terminal according to claim 10,  
wherein the information setting unit selects a ~~the~~ home agent from among the routers whose flag, indicating that the home agent is included in the router information of the router information response messages, is on.

25. (Currently Amended) A mobile terminal according to claim 24,  
wherein in the selection of a ~~the~~ home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the~~ one with a highest priority.

26. (Currently Amended) A mobile terminal according to claim 24,  
wherein the information setting unit selects a ~~the~~ home agent arbitrarily from among the routers whose flag is on.

27. (Currently Amended) A mobile terminal according to claim 24,  
wherein through ~~a~~ an ~~the~~ input unit the user enters selection criteria for the selection of a ~~the~~ home agent to be performed by the information setting unit, and  
the information setting unit performs the selection of a ~~the~~ home agent based on the selected ~~the basis of these~~ criteria.

28. (Currently Amended) A mobile terminal according to claim 10,

wherein the input unit ~~may be~~is a soft key on a screen, a button set in a main body, or a switch set in the main body.

29. (Currently Amended) A mobile terminal according to claim 10, further comprising a display unit that notifies the user that ~~the~~ setting of information regarding athe home agent is completed.

30. (Currently Amended) A mobile terminal according to claim 10,  
wherein the input unit designates ~~the~~a time period in which ~~the~~ information regarding athe home agent is set, and  
the information setting unit sets the information only in ~~this~~the designated time period.

31. (Currently Amended) A mobile terminal according to claim ~~28~~30,  
wherein the designated time period is a period in which ~~the~~a soft key, ~~the~~a button, or ~~the~~a switch used as the input unit is in ~~the~~a state 'ON'.

32. (New) The method according to claim 1, further comprising:  
indicating in the list of routers whether each home agent from among the routers supports mobile routing; and  
establishing a connection of the mobile router to another home agent that does not support mobile routing when the mobile router changes operations from those of a mobile router function to those of a mobile terminal function.